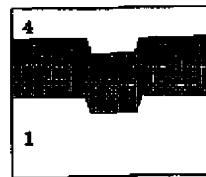


# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 08111034  
 PUBLICATION DATE : 30-04-96



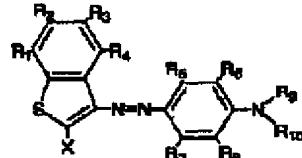
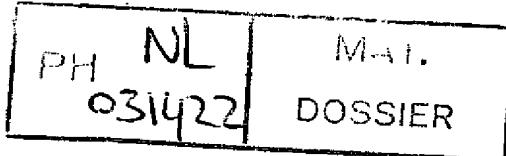
APPLICATION DATE : 13-10-94  
 APPLICATION NUMBER : 06247884

APPLICANT : MITSUI TOATSU CHEM INC;

INVENTOR : TAKUMA HIROSUKE;

INT.CL. : G11B 7/24 B41M 5/26

TITLE : OPTICAL RECORDING MEDIUM



[式中、R<sub>1</sub>、R<sub>2</sub>、R<sub>3</sub>及びR<sub>4</sub>は各々独立に水素原子、ハロゲン原子、ニトロ基、シアノ基、置換または未置換のアルキル基、アルコキシ基、アリル基を表す。R<sub>5</sub>、R<sub>6</sub>、R<sub>7</sub>、R<sub>8</sub>及びR<sub>10</sub>は各々独立に、水素原子、ハロゲン原子、ヒドロキシ基、カルボキシル基、スルホン基、置換または未置換のアルキル基、アルコキシ基、アリル基、アシル基、アルキルカルボキシル基、アラカル基、アルキルカルボニルアミノ基、アルキルスルホンアミノ基、アルキルアミノ基、スルホンアミド基、アミノ基、アルキルカルボニル基、アルキルスルホン基、フェニル基を表し、R<sub>9</sub>とR<sub>10</sub>、R<sub>1</sub>とR<sub>2</sub>及びR<sub>3</sub>とR<sub>4</sub>は連結基を介して環を形成してもよい。Xは水素原子、アロイル基、エステル基を表す。]

ABSTRACT : PURPOSE: To record and reproduce with near infrared laser of 780nm by containing an azo compound having a specific composition and property in a recording layer provided on a substrate.

CONSTITUTION: The recording layer 2 is formed on the substrate 1, a reflection layer 3 is provided thereon in close contact with it and a protective layer 4 is provided thereon, to cover the reflection layer 3. The recording layer 2 contains the azo compound expressed by the formula and having absorption maximum in 450-630nm wavelength. As a result, the interchangeable optical recording medium capable of recording and reproducing with not only the conventionally used near infrared laser of 780nm but also red laser of 635-680nm of recording and reproducing wavelength is obtained.

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